



1731

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: :
Jeffrey A. Lee : Group Art Unit: 1731
U.S. Serial No.: 10/625,086 : Examiner: UNKNOWN
Filing Date July 23, 2003 :
Docket No. 2159-A (FJ-99-39A) :
For: METHOD OF BLEACHING AND :
PROVIDING PAPERMAKING FIBERS :
WITH DURABLE CURL :

Mail Stop DD
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

INFORMATION DISCLOSURE STATEMENT UNDER 37 C.F.R. 1.56, 1.97 AND 1.98

Sir:

Applicants submit herewith patents, publications, and other information of which they are aware, which they believe may be material, as defined in 37 C.F.R. 1.56(b), to the examination of this application and in respect of which there may be a duty to disclose in accordance with 37 C.F.R. 1.56(a). While information referred to in this Information Disclosure Statement may be material pursuant to 37 C.F.R. 1.56(b), the filing of this Information Disclosure Statement is not intended to, pursuant to 37 C.F.R. 1.97(h), constitute an admission that any patent, publication or other information referred to is, or is considered to be, material to the patentability of this invention. Pursuant to 37 C.F.R. 1.97(g), the filing of this Information Disclosure Statement shall not be construed to mean that a search has been made or that no other material information exists.

- ☒ This information Disclosure Statement is filed within the period set forth in §1.97(b) because it accompanies the new patent application submitted herewith, is filed within three months of the filing date of a national application or within three months of the date of entry of the national stage as set forth in §1.491 in an international application. Or is believed to be filed before the mailing date of a first Office Action on the merits, whichever event occurs last. However, in the event that the first office action has been mailed, the Commissioner is authorized to charge any fees under 37 C.F.R. 1.17(p) or credit any overpayment to Account No. 50-0935.

- ☐ This Information Disclosure Statement is filed after the period set forth in 37 C.F.R. 1.97(b), but is believed to be filed before the mailing date of a final action under §1.311, whichever occurs first.

- ☐ (1) The undersigned attorney certifies that each item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this statement;

- ☐ (2) The undersigned attorney certifies that no item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application or, to the knowledge of the undersigned attorney after making reasonable inquiry, was known to any individual designated in §1.56 (c) more than three months prior to the filing of this statement; or

- ☐ (3) This Information Disclosure Statement is accompanied by a transmittal letter in which payment of the fee set forth in §1.17(p) and required by 37 C.F.R. 1.97 (c) is authorized.

Patents

1. U.S. Patent No. 2,008,892, issued July 23, 1935, entitled "Method of Manufacture of Pulp", of *A.J.A. Asplund*;
2. U.S. Patent No. 2,516,384, issued July 25, 1950, entitled "Mechanically Curling Cellulose Fibers", of *H.S. Hill et al.*;
3. U.S. Patent No. 3,023,140, issued February 27, 1962, entitled "Pulp Bleaching", of *C.K. Textor*;
4. U.S. Patent No. 3,382,140, issued May 7, 1968, entitled "Process for Fibrillating Cellulosic Fibers and Products Thereof", of *J.T. Henderson et al.*;
5. U.S. Patent No. 3,507,743, issued April 21, 1970, entitled "Bleaching of Wood Pulps with Reductive Bleaching Agents and Thiourea", of *L.P. Carlsunis et al.*;
6. U.S. Patent No. 3,773,610, issued November 20, 1973, entitled "Pressurized System for Pulp Refining Including Pressurized Double Disk Treatment", of *J.C. Shouvlin et al.*;
7. U.S. Patent No. 3,808,090, issued April 30, 1974, entitled "Mechanical Abrasion of Wood Particles in the Presence of Water and in an Inert Gaseous Atmosphere", of *K.C. Logan et al.*;
8. U.S. Patent No. 3,873,412, issued March 25, 1975, entitled "Mechanically Refining a Mixture of Kraft and Semichemical Pulp", of *M.T. Charters et al.*;
9. U.S. Patent No. 3,948,449, issued April 6, 1976, entitled "Apparatus for the Treatment of Lignocellulose Material", of *K.C. Logan et al.*;
10. U.S. Patent No. 4,036,679, issued July 19, 1977, entitled "Process for Producing Convolutd, Fiberized, Cellulose Fibers and Sheet Products Therefrom, of *S.E. Back et al.*;
11. U.S. Patent No. 4,187,141, issued February 5, 1980, entitled "Method of Producing Bleached Mechanical Pulp", of *B. Ahrel*;
12. U.S. Patent No. 4,259,148, issued March 31, 1981, entitled "Process for Making Refiner Mechanical Pulp", of *L.R. Beath et al.*;

13. U.S. Patent No. 4,409,065, issued October 11, 1983, entitled "Kraft Paper", of *A. Kasser*;
14. U.S. Patent No. 4,431,479, issued February 14, 1984, entitled "Process for Improving and Retaining Pulp Properties", of *M. Barbe et al.*;
15. U.S. Patent No. 4,455,195, issued June 19, 1984, entitled "Fibrous Filter Media and Process for Producing Same, of *H. B. Kinsley*;
16. U.S. Patent No. 4,455,237, issued June 19, 1984, entitled "High Bulk Pulp, Filter Media Utilizing Such Pulp, Related Processes", of *H.B. Kinsley*;
17. U.S. Patent No. 4,488,932, issued December 18, 1984, entitled "Fibrous Webs of Enhanced Bulk and Method of Manufacturing Same", of *R.J. Eber et al.*;
18. U.S. Patent No. 4,548,674, issued October 22, 1985, entitled "Process for the Regeneration of Waste Paper", of *J. Hageman et al.*;
19. U.S. Patent No. 4,734,160, issued March 29, 1988, entitled "Method of Two-Stage Peroxide Bleaching of Mechanical or Semi-Mechanical Pulp", of *S. Moldenius*;
20. U.S. Patent No. 4,756,798, issued July 12, 1988, entitled "Process for Bleaching a Mechanical Pulp with Hydrogen Peroxide", of *D. Lachenal et al.*;
21. U.S. Patent No. 4,898,642, issued February 6, 1990, entitled "Twisted, Chemically Stiffened Cellulosic Fibers and Absorbent Structures Made Therefrom", of *D.R. Moore et al.*;
22. U.S. Patent No. 4,915,785, issued April 10, 1990, entitled "Single Stage Process for Bleaching of Pulp with an Aqueous Hydrogen Peroxide Bleaching Composition Containing Magnesium Sulphate and Sodium Silicate", of *G.J. Simoski et al.*;
23. U.S. Patent No. 4,938,842, issued July 3, 1990, entitled "High Consistency Peroxide Bleaching", of *P. Whiting et al.*;
24. U.S. Patent No. 4,976,819, issued December 11, 1990, entitled "Pulp Treatment Methods", of *M.L. Minton*;
25. U.S. Patent No. 5,211,809, issued May 18, 1993, entitled "Dye Removal in Oxygen Color Stripping of Secondary Fibers", of *R.C. Naddeo et al.*;
26. U.S. Patent No. 5,244,541, issued September 14, 1993, entitled "Pulp Treatment Methods", of *M.L. Minton*;
27. U.S. Patent No. 5,296,100, issued March 22, 1994, entitled H_2O_2 /Alkaline Bleaching of Wood Pulps", of *M. Devic*;
28. U.S. Patent No. 5,348,620, issued September 20, 1994, entitled "Method of Treating Papermaking Fibers for Making Tissue", of *M.A. Hermans et al.*;

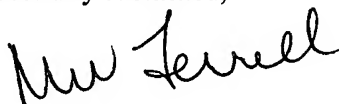
29. U.S. Patent No. 5,384,011, issued January 24, 1995, entitled "Process for Crosslinking of Cellulosic Fibers", of *S.J. Hazard, Jr.*;
30. U.S. Patent No. 5,384,012, issued January 24, 1995, entitled "Process for Crosslinking of Cellulosic Fibers", of *S.J. Hazard, Jr.*;
31. U.S. Patent No. 5,501,768, issued March 26, 1996, entitled "Method of Treating Papermaking Fibers for Making Tissue", of *M.A. Hermans et al.*;
32. U.S. Patent No. 5,571,377, issued November 5, 1996, entitled "Process for Peroxide Bleaching of Chemical Pulp in a Pressurized Bleach Vessel", of *P. Tibbling et al.*;
33. U.S. Patent No. 5,709,774, issued January 20, 1988, entitled "Heat Treated High Lignin Content Cellulosic Fibers", of *S.A. Naieni*;
34. U.S. Patent No. 5,755,926, issued May 26, 1998, entitled "Integrated Pulping Process of Waste Paper Yielding Tissue-Grade Paper Fibers", of *C.W. Hankins et al.*;
35. U.S. Patent No. 5,772,845, issued June 30, 1998, entitled "Soft Tissue", of *T.E. Farrington, Jr. et al.*;
36. U.S. Patent No. 5,834,095, issued November 10, 1998, entitled "Treatment Process for Cellulosic Fibers", of *J. Dutkiewicz et al.*;
37. U.S. Patent No. 5,858,021, issued January 12, 1999, entitled "Treatment Process for Cellulosic Fibers", of *T. Sun et al.*;
38. U.S. Patent No. 5,893,525, issued April 13, 1999, entitled "Refiner Plate With Variable Pitch", of *Gingras*;
39. U.S. Patent No. 5,997,689, issued December 7, 1999, entitled "Method of Pre-Treating Secondary Fibers with Oxygen in a Dispenser", of *M. Bokstrom*; and
40. U.S. Statutory Invention Registration No. H1704, published January 6, 1998, entitled "Modified Cellulose Fiber Having Improved Curl", of *P.R.R. Wallajapet et al.*

Publications

1. EPO Publication No. 0 096 460 A2, published December 21, 1983, entitled "Process for Improving and Retaining Pulp Properties", of *M. Barbe et al.*;
2. EPO Publication No. 0 101 319 A2, published February 22, 1984, entitled "Fibrous Webs of Enhanced Bulk and Method of Manufacturing Same", of *R.J. Eber et al.*;
3. EPO Publication No. 0 252 650 A2, published January 13, 1988, entitled "Twisted, Stiffened Cellulosic Fibres, and Absorbent Structures Made Therefrom", of *D.R. Moore et al.*;

4. EPO Publication No. 0 440 472 A1, published August 7, 1991, entitled "High Bulking Resilient Fibers Through Cross Linking of Pulp Fibers with Polycarboxylic Acids", of *B.J. Kokko*;
5. French Publication No. 2,747,406, published October 17, 1997, entitled "Procede de Delignification a l'Oxygene D'Une Pate a Papier, of *P. Larnicol et al.*;
6. WIPO Publication No. WO 96/20308, published July 4, 1996, entitled "Bleaching of Filled Paper, of *D.K. Drummond*;
7. WIPO Publication No. WO 94/20674, published September 15, 1994, entitled "Chemical Paper Pulp Delignification Method", of *J. Devenyns et al.*; and
8. WIPO Publication No. WO 98/27269, published June 25, 1998, entitled "Treatment Process for Cellulosic Fibers", of *S-H. Hu*.

Respectfully submitted,

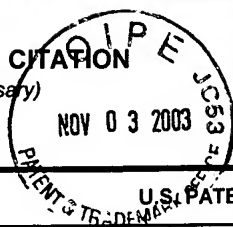


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October 29, 2003

INFORMATION DISCLOSURE CITATION

(Use several sheets if necessary)



ATTY DOCKET NO.
2159-A (FJ-99-39A)

SERIAL NO.
10/625,086

Jeffrey A. Lee

FILING
July 23, 2003

GROUP
1731

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	U.S. Patent 2,008,892	7/23/35	Asplund	92	20	
	U.S. Patent 2,516,384	7/25/50	Hill et al.	92	20	
	U.S. Patent 3,023,140	2/27/63	Textor	162	24	
	U.S. Patent 3,382,140	5/7/68	Henderson et al.	162	28	
	U.S. Patent 3,507,743	4/21/70	Cartsunis et al.	162	72	
	U.S. Patent 3,773,610	11/20/73	Shouvlin et al.	162	19	
	U.S. Patent 3,808,090	4/30/74	Logan et al.	162	23	
	U.S. Patent 3,873,412	3/25/75	Charters et al.	162	25	
	U.S. Patent 3,948,449	4/6/76	Logan et al.	241	41	
	U.S. Patent 4,036,679	7/19/77	Back et al.	162	9	
	U.S. Patent 4,187,141	2/5/80	Ahrel	162	23	

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO
	EPO Pub. 0 096 460	12/21/83	EPO	D21	C 9/00	✓	
	EPO Pub. 0 101 319	2/22/84	EPO	D21	F 11/00	✓	
	EPO Pub. 0 252 650	1/13/88	EPO	A61L	15/00	✓	
	EPO Pub. 0 440 472	8/7/91	EPO	D21H	11/20	✓	
	French Pub.2 747 406	10/17/97	France	D21	C 9/147		✓

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

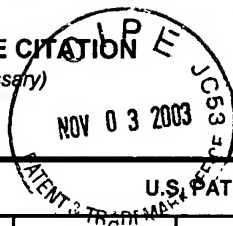
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	U.S. Patent 4,259,148	3/31/81	Beath et al.	162	24	
	U.S. Patent 4,409,065	10/11/83	Kasser	162	9	
	U.S. Patent 4,431,479	2/14/84	Barbe et al.	162	9	
	U.S. Patent 4,455,195	6/19/84	Kinsley	162	13	
	U.S. Patent 4,455,237	6/19/84	Kinsley	210	767	
	U.S. Patent 4,488,932	12/18/84	Eber et al.	162	9	
	U.S. Patent 4,548,674	10/22/85	Hageman et al.	162	5	
	U.S. Patent 4,734,160	3/29/88	Moldenius	162	71	
	U.S. Patent 4,756,798	7/12/88	Lacjhenal et al.	162	24	
	U.S. Patent 4,898,642	2/6/90	Moore et al.	162	157.6	
	U.S. Patent 4,915,785	4/10/90	Siminoski et al.	162	78	

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	WO 96/20308	7/4/96	PCT	D21C	9/10	✓	
	WO 94/20674	9/15/94	PCT	D21C	9/16		✓
	WO 98/27269	6/25/98	PCT	D21C	9/00	✓	

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

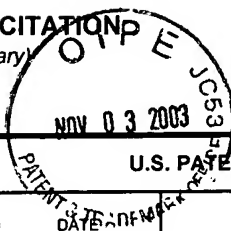
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	U.S. Patent 4,938,842	7/3/90	Whiting et al.	162	78	
	U.S. Patent 4,976,819	12/11/90	Minton	162	9	
	U.S. Patent 5,211,809	5/18/93	Naddeo et al.	162	6	
	U.S. Patent 5,244,541	9/14/93	Minton	162	28	
	U.S. Patent 5,296,100	3/22/94	Devic	162	78	
	U.S. Patent 5,348,620	9/20/94	Hermans et al.	162	9	
	U.S. Patent 5,384,011	1/24/95	Hazard, Jr.	162	9	
	U.S. Patent 5,384,012	1/24/95	Hazard, Jr.	162	9	
	U.S. Patent 5,501,768	3/26/96	Hermans et al.	162	9	
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	U.S. Patent 5,709,774	1/20/98	Naieni	162	9	

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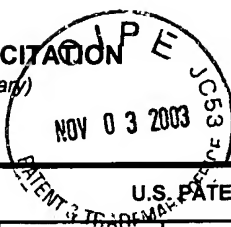
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	U.S. Patent 5,772,845	6/30/98	Farrington, Jr. et al.	162	109	
	U.S. Patent 5,834,095	11/10/98	Dutkiewicz et al.	428	191	
	U.S. Patent 5,858,021	1/12/99	Sun et al.	8	125	
	U.S. Patent 5,893,525	4/13/99	Gingras	241	298	
	U.S. Patent 5,997,689	12/7/99	Bokstrom	162	6	
	US Stat.Inv.Reg. H170	1/6/98	Wallajapet et al	536	30	

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CERTIFICATE OF MAILING BY FIRST CLASS MAIL (37 CFR 1.8)Applicant(s): **Jeffre A. Lee**

Docket No.

2159-A (FJ-99-39A)

Serial No.

10/625,086

Filing Date

July 23, 2003

Examiner

UNKNOWN

Group Art Unit

1731Invention: **METHOD OF BLEACHING AND PROVIDING PAPERMAKING FIBERS WITH DURABLE CURL**I hereby certify that this **IDS, w/references, PTO-1449 and return postcard***(Identify type of correspondence)*

is being deposited with the United States Postal Service as first class mail in an envelope addressed to:

Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on **October 29, 2003***(Date)***Carol R. Maddaloni***(Typed or Printed Name of Person Mailing Correspondence)*

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